

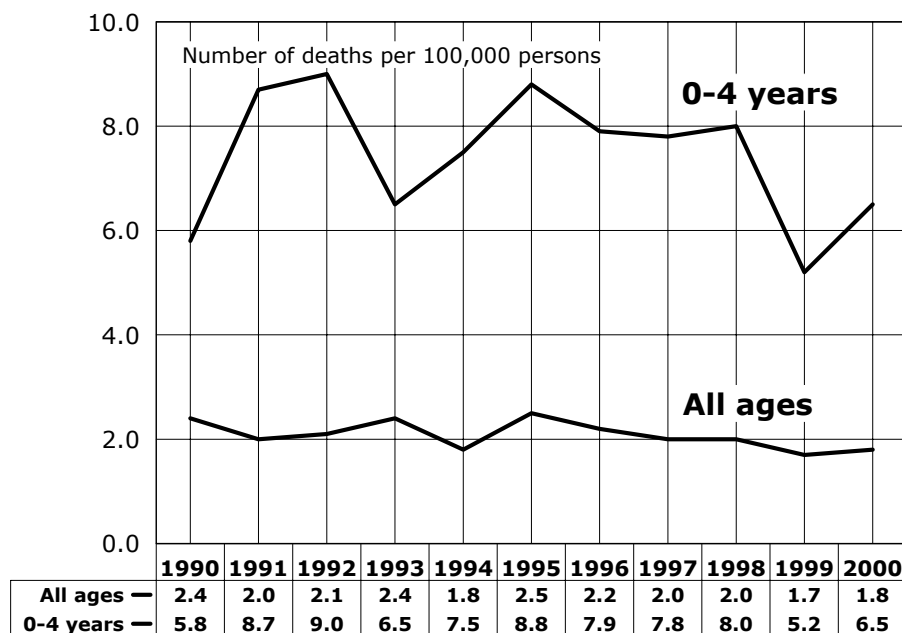
DROWNING DEATHS

9



DROWNING DEATHS

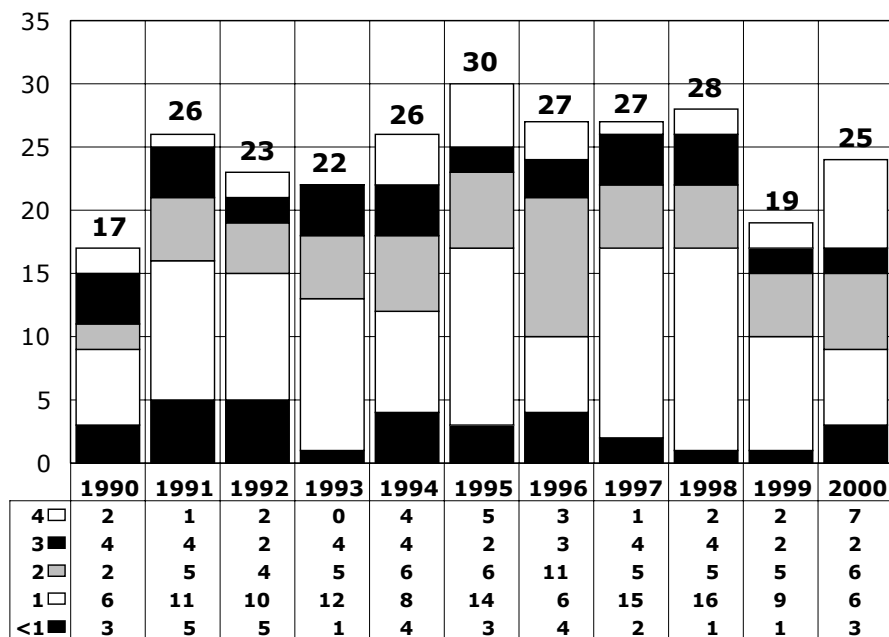
Figure 9-1
Drowning Death Rates for Arizonans of All Ages
and Children 0-4 Years Old, Arizona, 1990-2000



Both nationally and in Arizona, the highest age-specific drowning rate is for children under five years of age. The 2000 drowning rate among preschoolers 0-4 years old was 3.6 times higher than the rate for persons of all ages (**Figure 9-1**).

The number of drowning deaths per 100,000 Arizona children 0-4 years old dropped from a recent high of 8.0/100,000 in 1998 to 5.2/100,000 in 1999. However, drowning mortality among preschoolers increased again to a rate of 6.5/100,000 in 2000.

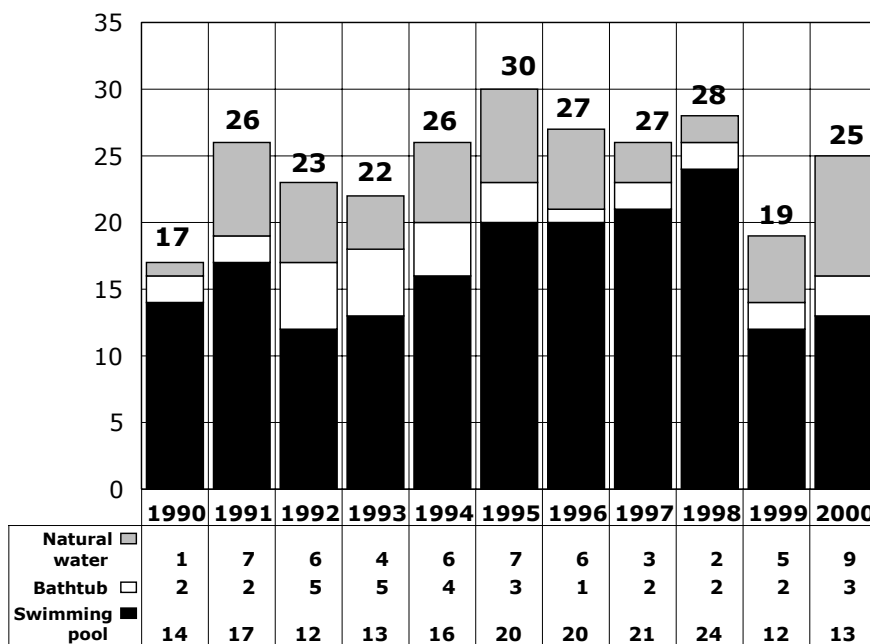
Figure 9-2
Accidental Drowning Deaths by Year Among Infants
and Children 0-4 Years Old, Arizona, 1990-2000



Among children under 5 years of age only 1 year olds experienced a noticeable decrease in the number of drowning deaths from 16 in 1998 to 6 in 2000 (**Figure 9-2**).

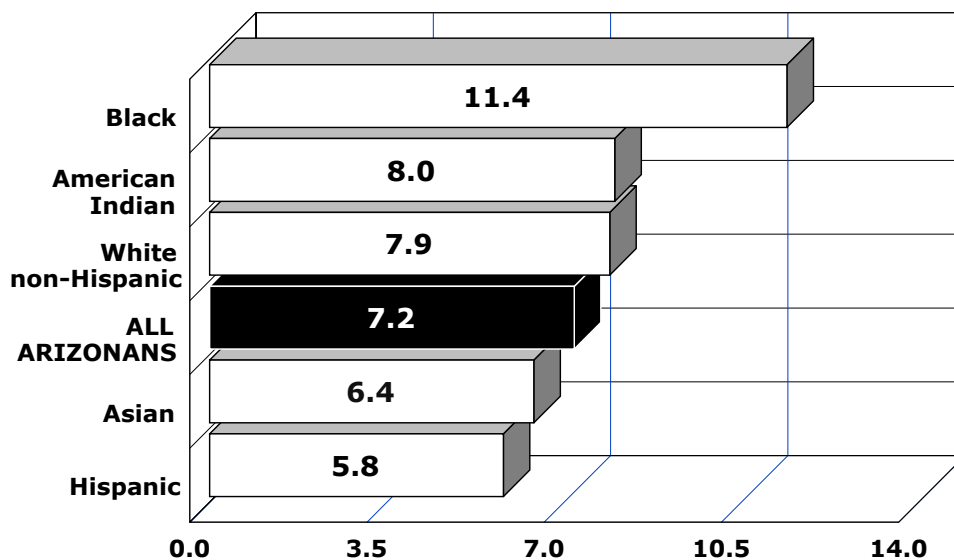
DROWNING DEATHS

Figure 9-3
Accidental Drowning Deaths by Place Among Infants and Children 0-4 Years Old, Arizona, 1990-2000



Two out of every three (67.4 percent) children 0-4 years old who drowned between 1990 and 2000 did so in a swimming pool (Figure 9-3).

Figure 9-4
Average Annual Mortality Rates for Accidental Drowning by Race/Ethnic Group Among Children 0-4 Years Old, Arizona, 1990-2000

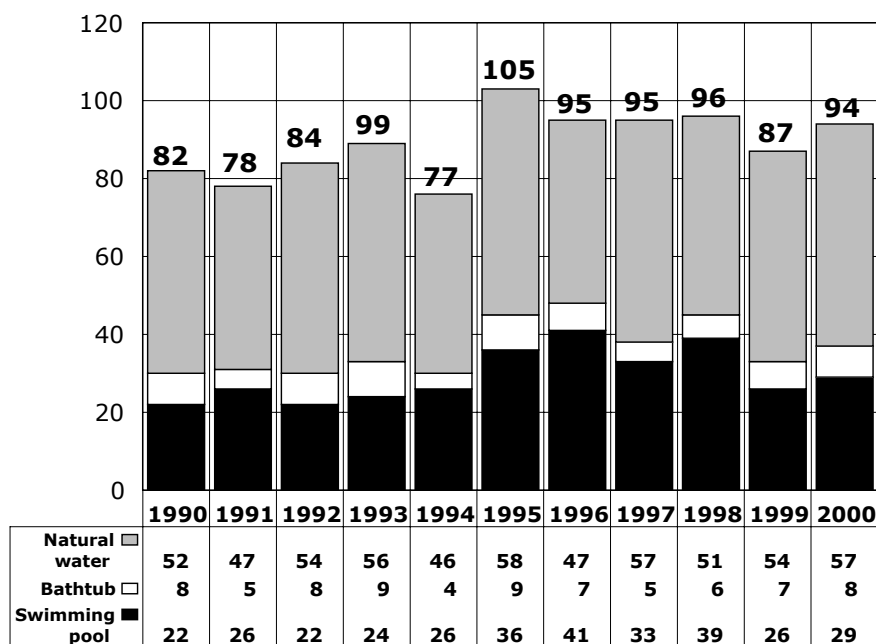


During 1990-2000, Black children 0-4 years old had the highest average annual drowning mortality rate (Figure 9-4), followed by American Indians and White non-Hispanics.

Number of drowning deaths per 100,000 population in specified group per year from 1990 to 2000. The rates were computed using an 11-year total number of deaths for 1990-2000. The 1995 population figures (i.e., population at mid-point) multiplied by eleven were used as denominators.

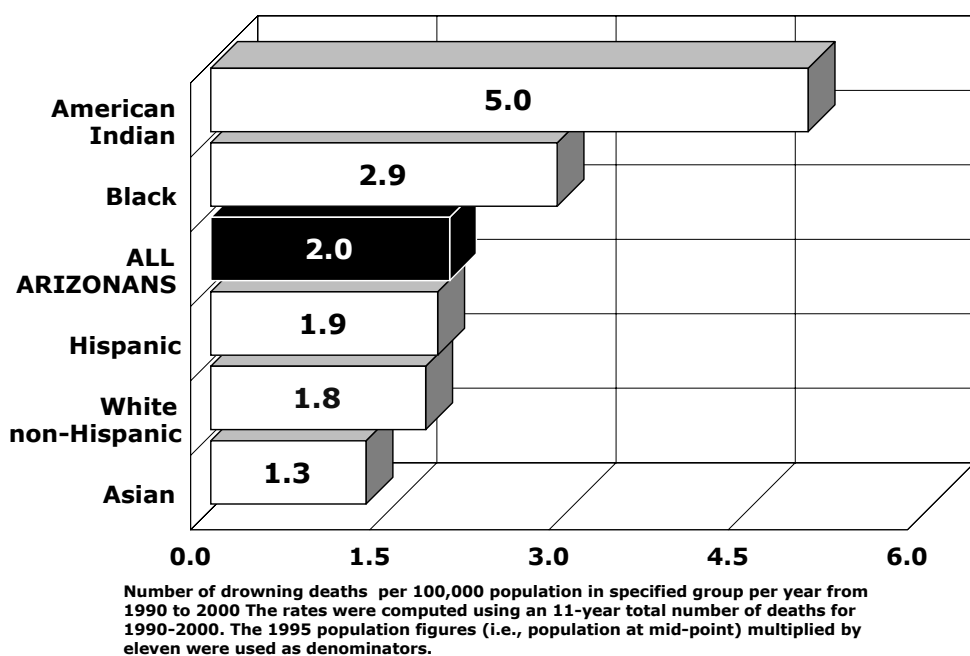
DROWNING DEATHS

Figure 9-5
Accidental Drowning Deaths by Place Among
Persons of All Ages, Arizona, 1990-2000



Six out of every ten, or 579 out of 963 Arizonans of all ages who drowned between 1990 and 2000 did so in a lake or river (**Figure 9-5**). Swimming pool drownings accounted for 33 percent (329/963) of all drowning deaths of Arizonans of all ages in 1990-2000.

Figure 9-6
Average Annual Mortality Rates for Accidental
Drowning by Race/Ethnic Group, Arizona, 1990-2000



American Indian residents of all ages in Arizona had the highest 1990-2000 rate of death from drowning (5.0/100,000; **Figure 9-6**). Arizona's Blacks had the second highest death rate for drowning (2.9/100,000) among ethnic groups during 1990-2000. The average annual drowning death rate of 1.3/100,000 among Asians was the lowest rate among racial/ethnic groups in 1990-2000.

DROWNING DEATHS DATA TABLES

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**TABLE 9-1
DROWNING DEATHS BY INTENT AND YEAR, ARIZONA RESIDENTS, 1990-2000**

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
ACCIDENTAL DROWNING AND SUBMERSION	81	76	80	94	72	103	95	91	94	83	94
DROWNING IN WATER TRANSPORT ACCIDENT	29	1	4	5	5	2	0	4	2	4	0
ASSAULT (HOMICIDE) BY DROWNING	5	0	1	1	1	0	0	0	1	0	1
INTENTIONAL SELF-HARM (SUICIDE) BY DROWNING	29	3	5	1	4	1	2	3	1	2	3
DROWNING AND SUBMERSION, UNDETERMINED INTENT	22	3	3	2	2	2	2	3	3	1	0
TOTAL	1048	88	93	103	84	108	99	101	101	90	98

**TABLE 9-2
NUMBER OF ACCIDENTAL DROWNINGS BY RACE/ETHNICITY, GENDER AND YEAR, ARIZONA, 1990-2000**

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
TOTAL, ALL GROUPS	81	76	80	94	72	103	95	91	94	83	94
MALE	66	59	58	74	46	84	69	66	74	62	68
FEMALE	15	17	22	20	26	19	26	25	20	21	26
WHITE NON-HISPANIC	52	48	47	52	43	61	62	53	60	51	52
MALE	39	34	34	40	28	51	48	35	48	38	34
FEMALE	13	14	13	12	15	10	14	18	12	13	18
HISPANIC	13	14	19	16	17	27	21	15	20	16	21
MALE	12	14	13	14	11	21	13	10	16	11	17
FEMALE	1	0	6	2	6	6	8	5	4	5	4
BLACK	2	5	3	4	5	3	4	6	1	3	6
MALE	2	4	3	2	3	3	3	5	1	3	6
FEMALE	0	1	0	2	2	0	1	1	0	0	0
AMERICAN INDIAN	13	8	10	20	7	10	7	16	10	12	13
MALE	12	7	7	18	4	8	4	15	7	9	9
FEMALE	1	1	3	2	3	2	3	1	3	3	4
ASIAN	1	1	0	2	0	2	1	0	3	0	1
MALE	1	0	0	0	0	1	1	0	2	0	1
FEMALE	0	1	0	2	0	1	0	0	1	0	0
OTHER/UNKNOWN	0	0	1	0	0	0	0	1	0	1	1
MALE	0	0	1	0	0	0	0	1	0	1	1

**TABLE 9-3
ACCIDENTAL DROWNING DEATHS BY AGE GROUP AND PLACE, ARIZONA, 2000**

	Total	Bathtub	Swimming pool	Natural water (lake, river, etc.)
Total	94	8	29	57
<1	3	3	0	0
1-4	22	0	13	9
5-9	7	0	2	5
10-14	1	0	0	1
15-19	7	0	0	7
20-24	6	0	1	5
25-29	6	0	0	6
30-34	4	0	0	4
35-39	6	1	0	5
40-44	4	1	2	1
45-49	2	0	2	0
50-54	5	0	2	3
55-59	2	1	0	1
60-64	5	0	1	4
65-69	1	0	0	1
70-74	3	2	1	0
75-79	5	0	3	2
80-84	1	0	1	0
85-89	1	0	1	0
90-94	1	0	0	1
Unknown	2	0	0	2

**TABLE 9-4
NUMBER OF ACCIDENTAL DROWNINGS BY PLACE AND COUNTY OF RESIDENCE,
ARIZONA, 2000**

	Total	Bathtub	Swimming pool	Natural water (lake, river, etc.)
Total	94	8	29	57
Apache	4	0	0	4
Cochise	1	1	0	0
Coconino	1	0	0	1
Maricopa	57	3	25	29
Mohave	3	0	0	3
Navajo	2	0	0	2
Pima	12	2	3	7
Pinal	5	0	1	4
Santa Cruz	1	0	0	1
Yavapai	3	1	0	2
Yuma	5	1	0	4

**TABLE 9-5
RESIDENT DROWNING AND NON-RESIDENT DROWNING OCCURRING
IN ARIZONA, 2000**

AGE GROUP	AZ RESIDENT, DIED IN AZ	AZ RESIDENT, DIED ELSEWHERE	NON-RESIDENT, DIED IN AZ
TOTAL	89	5	10
<1	3	0	0
1-4	22	0	0
5-14	8	0	0
15-24	13	0	3
25-34	9	1	2
35-44	9	1	1
45-54	7	0	0
55-64	6	1	0
65+	10	2	4
Unknown	2	0	0

**TABLE 9-6
DROWNING DEATHS BY COUNTY OF OCCURRENCE AND AGE GROUP, ARIZONA, 2000**

County of occurrence	TOTAL *	Age group									
		<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65+	Unknown
TOTAL	99	3	22	8	16	11	10	7	6	14	2
Apache	2	0	0	0	1	1	0	0	0	0	0
Cochise	1	1	0	0	0	0	0	0	0	0	0
Coconino	2	0	0	0	2	0	0	0	0	0	0
Maricopa	62	1	18	5	7	5	6	6	5	9	0
Mohave	4	0	0	0	1	3	0	0	0	0	0
Navajo	3	0	0	2	1	0	0	0	0	0	0
Pima	11	0	3	1	1	1	1	1	0	3	0
Pinal	3	0	0	0	1	0	1	0	1	0	0
Santa Cruz	1	0	0	0	0	0	0	0	0	1	0
Yavapai	2	1	0	0	0	0	0	0	0	1	0
Yuma	7	0	1	0	1	1	2	0	0	0	2
La Paz	1	0	0	0	1	0	0	0	0	0	0

* Resident (89) and non-resident (10) drowning deaths occurring in Arizona.

**TABLE 9-7
ACCIDENTAL DROWNING DEATHS AND DROWNING RATES BY AGE AMONG CHILDREN 0-4 YEARS OLD,
ARIZONA, 1990-2000**

Age	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Under 1	3	5	5	1	4	3	4	2	1	1	3
1	6	11	10	12	8	14	6	15	16	9	6
2	2	5	4	5	6	6	11	5	5	5	6
3	4	4	2	4	4	2	3	4	4	2	3
4	2	1	2	0	4	5	3	1	2	2	7
Subtotal, 1-4	14	21	18	21	22	27	23	25	27	18	22
Total, 0-4	17	26	23	22	26	30	27	27	28	19	25
Under 1	4.4	9.5	9.2	1.4	5.7	4.4	5.6	2.8	1.3	1.3	3.5
1	9.7	17.8	15.2	17.4	11.5	20.5	10.3	21.0	22.1	12.0	7.8
2	3.2	8.1	6.1	7.2	8.6	8.8	15.7	10.9	6.9	6.7	8.0
3	6.8	6.5	3.2	6.1	5.7	2.9	4.3	6.5	2.8	2.7	3.9
4	3.4	1.6	3.3	-	5.6	7.3	4.3	1.7	1.7	3.1	9.1
Subtotal, 1-4	5.8	8.5	7.1	7.9	8.0	9.9	8.5	9.1	9.7	6.2	7.2
Total, 0-4	5.8	8.7	9.0	6.5	7.5	8.8	7.9	7.8	8.0	5.2	6.5

*Per 100,000 population in specified group. For infants under 1 year of age, the number of births is used as the denominator.

Note: Many rates shown in this table are based on a small population, a small number of events or both. Rates based on small numbers (10 or less) are not statistically reliable.

**TABLE 9-8
NUMBER OF ACCIDENTAL DROWNINGS AMONG CHILDREN 0-4 YEARS OLD BY COUNTY OF RESIDENCE
AND YEAR, ARIZONA, 1990-2000**

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Total	17	26	23	22	26	30	26	25	28	19	25
Cochise	1	0	0	0	0	0	0	0	1	0	1
Coconino	0	1	0	0	1	1	0	0	0	1	0
Gila	0	0	0	0	0	0	0	0	1	0	0
Graham	0	1	0	0	0	1	0	0	0	0	0
Maricopa	14	18	14	17	17	16	18	23	19	13	18
Mohave	0	0	0	0	1	0	0	0	1	1	1
Navajo	0	0	2	0	0	1	3	0	1	0	0
Pima	1	5	3	4	6	4	1	1	4	2	3
Pinal	0	0	3	1	1	5	3	0	0	1	0
Yavapai	1	0	0	0	0	2	1	0	0	0	1
Yuma	0	1	1	0	0	0	0	0	0	1	1
Unknown	0	0	0	0	0	0	0	1	1	0	0

**TABLE 9-9
NUMBER OF ACCIDENTAL DROWNINGS AMONG CHILDREN 0-4 YEARS OLD BY MONTH AND YEAR,
ARIZONA, 1990-2000**

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	17	26	23	22	26	30	26	25	28	19	25
JAN	2	0	2	0	1	0	0	0	1	0	2
FEB	1	2	2	0	2	0	1	0	0	2	2
MARCH	1	1	0	0	0	4	0	3	1	2	2
APRIL	1	3	2	0	1	2	3	0	2	0	4
MAY	3	1	1	0	2	4	6	5	3	1	2
JUNE	1	6	1	6	2	5	6	4	4	7	2
JULY	2	2	3	7	3	5	3	3	6	3	5
AUG	0	3	2	4	3	4	2	3	5	3	3
SEPT	4	3	3	1	5	2	0	2	3	0	2
OCT	1	2	3	1	5	1	2	3	1	1	0
NOV	0	2	3	1	0	1	2	0	0	0	0
DEC	1	1	1	2	2	2	1	2	2	0	1

**TABLE 9-10
NUMBER OF ACCIDENTAL DROWNINGS BY RACE/ETHNICITY, GENDER AND YEAR AMONG
CHILDREN 0-4 YEARS OLD, ARIZONA, 1990-2000**

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
TOTAL, ALL CAUSES	Total	17	26	23	22	26	30	26	25	28	19	25
	Male	13	17	12	13	11	21	13	14	18	11	14
	Female	4	9	11	9	15	9	13	11	10	8	11
WHITE NON-HISPANIC	Total	12	17	10	13	13	13	16	16	16	8	15
	Male	9	9	7	9	6	9	10	8	10	6	9
	Female	3	8	3	4	7	4	6	8	6	2	6
HISPANIC	Total	2	5	8	5	9	10	5	8	9	8	6
	Male	1	5	3	3	4	6	1	5	6	4	3
	Female	1	0	5	2	5	4	4	3	3	4	3
BLACK	Total	1	1	1	3	3	1	2	1	1	0	2
	Male	1	1	1	1	1	1	1	1	1	0	2
	Female	0	0	0	2	2	0	1	0	0	0	0
AMERICAN INDIAN	Total	1	2	4	0	1	6	3	0	1	3	2
	Male	1	2	1	0	0	5	1	0	0	1	0
	Female	0	0	3	0	1	1	2	0	1	2	2
ASIAN	Total	1	1	0	1	0	0	0	0	1	0	0
	Male	1	0	0	0	0	0	0	0	1	0	0
	Female	0	1	0	1	0	0	0	0	0	0	0

**TABLE 9-11
NUMBER OF ACCIDENTAL DROWNINGS BY PLACE AND RACE/ETHNICITY
AMONG CHILDREN 0-4 YEARS OLD, ARIZONA, 2000**

	Total	Bathtub	Swimming pool	Natural water (lake, river, etc.)
Total	25	3	13	9
White non-Hispanic	15	2	9	4
Hispanic	6	1	3	2
Black	2	0	1	1
American Indian	2	0	0	2

**TABLE 9-12
NUMBER OF ACCIDENTAL DROWNINGS BY PLACE AND COUNTY OF RESIDENCE AMONG
CHILDREN 0-4 YEARS OLD, ARIZONA, 2000**

	Total	Bathtub	Swimming pool	Natural water (lake, river, etc.)
Total	25	3	13	9
Cochise	1	1	0	0
Maricopa	18	1	12	5
Mohave	1	0	0	1
Pima	3	0	1	2
Yavapai	1	1	0	0
Yuma	1	0	0	1

